PATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant	s or agent's file	a reference				
Applicant's or agent's file reference 79485		FOR FURTHER ACTION See Form PC		See Form PCT/IPEA/416		
International application No. PCT/DK2004/000521		International filing date 02.08.2004	(day/month/year)	Priority date (day/month/year) 05.08.2003		
Internation A23K1/1	nal Patent Clas 75, A23K1/	ssification (IPC) or na 10, A23K1/18, A	ational classification and 61K33/38, A61K35/	IPC 32		
Applicant THOMS	EN, Jorn O	ddershede				
1	mornly unidor	, adolo oo and hall	ismitted to the applica	nt according to Article	this International Preliminary Examining 36.	
2. This	s REPORT o	onsists of a total o	f 5 sheets, including	this cover sheet.		
3. This			y ANNEXES, compris			
a. D	Sent to th	ne applicant and to	the International Bure	eau) a total of 2 shee	ts, as follows:	
	⊠ shee and/o	ts of the description	on, claims and/or draw	ings which have been	amended and are the basis of this report (see Rule 70.16 and Section 607 of the	
	DOYU	its which supersed and the disclosure in Diemental Box.	e earlier sheets, but winder the international ap	which this Authority cor olication as filed, as in	nsiders contain an amendment that goes dicated in item 4 of Box No. I and the	
b. C				ndicate type and numicomputer readable for 02 of the Administrativ	ber of electronic carrier(s)) , containing a m only, as indicated in the Supplemental e Instructions).	
4. This	report conta	ains indications rel	ating to the following i	tems:		
⊠ ı	Box No. I	Basis of the opin	ion			
□ i	Box No. II	Priority				
	Box No. III	Non-establishme	nt of opinion with rega	ard to novelty, inventiv	e step and industrial applicability	
	Box No. IV	Lack of unity of it	nvention	• •	Total maderial approaching	
	Box No. V	applicability; cital	ions and explanations	2) with regard to novel supporting such state	ty, inventive step or industrial ement	
	Box No. VI	Certain documen				
	Box No. VII		n the international app			
L E	Box No. VIII	Certain observati	ons on the internation	al application		
Date of submission of the demand				Date of completion of t	his report	
12.01.20	12.01.2005			21.02.2005		
Name and mailing address of the international preliminary examining authority:				Authorized Officer		
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			3	Rooney, K	- Canada Caranta Caran	
				Telephone No. +31 70	340-3931	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000521

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_		x No. I Basis of the report				
1.	Wit file	With regard to the language , this report is based on the international application in the language in which it was illed, unless otherwise indicated under this item.				
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)				
2.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	With regard to the elements* of the international application, this report is based on <i>(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):</i>				
	Des	cription, Pages				
	1-15	as originally filed				
	Clai	ms, Numbers				
	1-12	received on 12.01.2005 with letter of 12.01.2005				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.		The amendments have resulted in the cancellation of:				
		☐ the description, pages				
		☐ the claims, Nos.				
		the drawings, sheets/figs				
		☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):				
		and the second to deque the firsting (specify).				
4.	Oup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)).				
		□ the description, pages □ the claims, Nos.				
		☐ the drawings, sheets/figs				
		☐ the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
	*	If item 4 applies, some or all of these sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000521

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-12

1. Statement

Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims 1-12

No: Claims

Industrial applicability (IA) Yes: Claims 1-12

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: US-A-6 017 901 (KHAN RIAZ ET AL) 25 January 2000 (2000-01-25)
 - D2: WO 96/35720 A (KHAN RIAZ ; KONOWICZ A PAUL (GB); FIDIA ADVANCED BIOPOLYMERS SRL (IT);) 14 November 1996 (1996-11-14)
 - D3: US-A-4 746 504 (GREENMAN BENJAMIN ET AL) 24 May 1988 (1988-05-24)
 - D4: EP-A-0 480 189 (ALTERGON SA) 15 April 1992 (1992-04-15)
 - D5: US 2003/099718 A1 (BURRELL ROBERT EDWARD ET AL) 29 May 2003 (2003-05-29)
 - D6: DATABASE WPI Section Ch, Week 199816 Derwent Publications Ltd., London, GB; Class B04, AN 1998-177283 XP002296635 & RU 2 087 148 C1 (TRETYAKOV V V) 20 August 1997 (1997-08-20)

2. Novelty

The documents D1-D5 disclose compositions suitable for use as a supplement which contain hyaluronate (a material derived from cartilage) and a silver salt (see D1-D5: passages cited in search report). The subject-matter of claims 1 and 11 differs from the teaching of these documents in that cartilage is used. Therefore, the present application meets the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1 and 11 is new in the sense of Article 33(2) PCT.

3. Inventive Step

The present application meets the criteria of Article 33(1) PCT, because the subject matter of claims 1 and 11 is considered to involve an inventive step in the sense of Article 33(3)PCT.

Document D6, which is considered to represent the most relevant state of the art to the subject matter of claims 1 and 11, discloses compositions containing colloidal silver. The compositions are used for treating distemper and parvoviral enteritis in livestock animals such as mink (see D6; abstract). The subject-matter of independent claims 1 and 11 differs

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International application No.

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from the disclosure of D6 in that a material derived from cartilage is added additionally to the composition. The effect of this addition is that smaller amounts of silver compound can be used in the compositions while retaining its therapeutic properties. Therefore the objective problem solved by the compositions of the present invention is a means of reducing the required concentration of silver in supplements. The means by which this problem is solved, namely the synergy provided by the addition of cartilage is not suggested by the available prior art.

4. Dependent claims

Claims 2-10 and 12 are dependent on claims 1 and 11 respectively and as such also meet the requirements of the PCT with respect to novelty and inventive step.

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Amended claims of 11 January 2005

- 5 1. Supplement preparation including
 - a) a first active component in form of biologically accessible silver, and
 - b) a second active component of cartilage,

and any conventional accessory agents or additives.

- 10 2. Preparation according to claim 1, characterised in that it includes one or more additional active components.
 - 3. Preparation according to claim 2, characterised in that it includes one or more additional active components selected among antimony pentasulphide, metallic tin and/or a tin salt, metallic zinc and/or a zinc salt, a sulphur containing substance and/or a iodine containing substance.
 - 4. Preparation according to claim 3, including hepar sulphuris as a sulphur containing substance.
 - 5. Preparation according to claim 3, including tare powder as a iodine containing substance.
- 6. Preparation according to claim 1, characterised in that the first active component (a) is a colloidal silver.
 - 7. Preparation according to claim 1, characterised in that the second active component (b) is ground and/or dried cartilage.
- 30 8. Preparation according to claim 1, characterised in that the second active com-

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ponent (b) is obtained from a cartilaginous fish, preferably a shark.

- 9. Preparation according to claim 1, characterised in that the content of cartilage, calculated as dry matter, is 100 12,000 parts by weight per 1 part by weight of biologically accessible silver, preferably 200 6000 parts by weight per 1 part by weight of biologically accessible silver and most preferably 300 3000 parts by weight per 1 part by weight of biologically accessible silver.
- 10. Preparation according to any one of the preceding claims, characterised in that
 10 it contains 0.5 50 mg of biologically accessible silver per litre preparation, preferably 1 20 mg of silver per litre.
 - 11. Use of (a), a first active component in form of biologically accessible silver, and (b), a second active component of cartilage, and any additional active components and/or conventional accessory agents or additives for the preparation of a health-promoting supplement preparation for livestock.
- 12. Use according to claim 12 of (a), a first active component in form of biologically accessible silver, and (b), a second active component of cartilage, and any additional active components and/or conventional accessory agent or additives for the preparation of a preparation for the prevention and treatment of plasmacytosis, puppy disease, enteritis virus, three-day sickness and/or "sticky" kits in mink.

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